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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/073,596	05/06/1998	RALPH M. STEINMAN	20164000US5	9977
43852 MERIX BIOS	7590 02/06/2008 CIENCE INC	EXAMINER :		
MERIX BIOSCIENCE, INC. 4233 TECHNOLOGY DRIVE			EWOLDT, GERALD R	
DURHAM, NC 27704			ART UNIT	PAPER NUMBER
			1644	
			MAIL DATE	DELIVERY MODE
· .			02/06/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

·		Application No.	Applicant(s)
		09/073,596	STEINMAN ET AL.
	Office Action Summary	Examiner	Art Unit
		G. R. Ewoldt, Ph.D.	1644
Period 1	The MAILING DATE of this communication aportion approximation approxi	opears on the cover sheet w	vith the correspondence address
WHI - Ext afte - If N - Fai An	HORTENED STATUTORY PERIOD FOR REPLICATION OF THE MAILING IT CHEVER IS LONGER, FROM THE MAILING IT CHEVER IS LONGER, FROM THE MAILING IT CHEVER IS LONGER, FROM THE MAILING IT CHEVER IS IT CHEVER IS A COMMONTH OF THE MAILING IT CHEVER IS A CHEVER I	DATE OF THIS COMMUN .136(a). In no event, however, may a d will apply and will expire SIX (6) MC ate, cause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
Status	·		•
1)[X	Responsive to communication(s) filed on 04 l	December 2007.	
		is action is non-final.	
3)	Since this application is in condition for allow	ance except for formal ma	ters, prosecution as to the merits is
	closed in accordance with the practice under	Ex parte Quayle, 1935 C.	D. 11, 453 O.G. 213.
Disposi	tion of Claims		
5)□ 6)⊠ 7)□	Claim(s) <u>89,91,92,94,95,99,101,103-113,115</u> 4a) Of the above claim(s) is/are withdra Claim(s) is/are allowed. Claim(s) <u>89,91,92,94,95,99,101,103-113,115</u> Claim(s) is/are objected to. Claim(s) are subject to restriction and/	awn from consideration. i-121 and 140-144 is/are re	
Applica	tion Papers		
_	The specification is objected to by the Examin	er.	
	The drawing(s) filed on is/are: a) ac		by the Examiner.
	Applicant may not request that any objection to the		
44)["]	Replacement drawing sheet(s) including the correct		· · · · · · · · · · · · · · · · · · ·
	The oath or declaration is objected to by the E	xaminer. Note the attache	d Office Action or form PTO-152.
Priority	under 35 U.S.C. § 119		
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureates the attached detailed Office action for a list	nts have been received. Its have been received in A prity documents have been au (PCT Rule 17.2(a)).	Application No received in this National Stage
Attachmer	nt(s)		
	ce of References Cited (PTO-892)		Summary (PTO-413)
	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08)		s)/Mail Date nformal Patent Application
	er No(s)/Mail Date	6) Other:	

Number: 09/073,596

Art Unit: 1644

DETAILED ACTION

1. Applicant's amendments and remarks filed 11/29/07 are acknowledged.

- 2. Claims 89, 91, 92, 94, 95, 99, 101, 103-113, 115-121, 140-144 are pending.
- 3. In view of Applicant's amendments the previous rejection under 35 U.S.C. § 112, first paragraph has been withdrawn.
- 4. The instant application is a continuation in part of U.S. Application Nos. 07/981,357, filed 11/25/1992, and 07/861,612, filed 4/01/92. However, the applications do not disclose the invention of the instant claims. First note that the method step employed in instant Claim 101 comprising, "treating the tissue source comprising dendritic cell precursors to increase the proportion of dendritic cell precursors", is not found in the '612 application. Further, neither the '612 nor the '357 applications disclose the cells being cultured with an antigen as is recited in the last step of Claims 101 and 120. Finally, neither application discloses a microorganism antigen, in particular a BCG antigen. Accordingly, the benefit of priority to said applications is denied. The priority date of the instant application is the filing date of parent application 08/040,677 which is 3/31/1993.
- 5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless
(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

6. Claims 89, 91, 92, 94, 95, 99, 101, 103-113, 115-121, 140-144 stand/are rejected under 35 U.S.C. 102(a) as being anticipated by Pancholi et al. (1992).

As set forth previously, Pancholi et al. teaches a pharmaceutical composition comprising human dendritic cells (DCs) pulsed with tuberculosis antigens (see particularly page 218, last paragraph).

The reference clearly anticipates the claimed invention.

Application/Control Number: 09/073,596

Art Unit: 1644

Regarding product-by-process claims, MPEP 2113 states:

"[E]ven though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process." In re Thorpe, 777 F.2d 695, 698, 227 USPQ 964, 966 (Fed. Cir. 1985), and

"The Patent Office bears a lesser burden of proof in making out a case of prima facie obviousness for product-by-process claims because of their peculiar nature" than when a product is claimed in the conventional fashion. In re Fessmann, 489 F.2d 742, 744, 180 USPQ 324, 326 (CCPA 1974). Once the examiner provides a rationale tending to show that the claimed product appears to be the same or similar to that of the prior art, although produced by a different process, the burden shifts to applicant to come forward with evidence establishing an unobvious difference between the claimed product and the prior art product. In re Marosi, 710 F.2d 798, 802, 218 USPQ 289, 292 (Fed. Cir.1983).

Applicant's arguments, filed 11/29/07, have been fully considered but are not found persuasive. Applicant again argues that Pancholi et al. is not available as art.

The issue of priority has been addressed in Section 4 above.

Applicant again argues that the DCs of the reference are not the DCs of the claims.

As set forth previously, the mouse DCs of the instant specification cannot be compared to the human DCs of the reference. Further, the experimental methods of the reference are different than are those of the instant specification, e.g., different populations of T cells are employed. Accordingly, no meaningful comparison can be made.

- 7. The following are new grounds for rejection.
- 8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -b) the invention was patented or described in a printed publication in this
or a foreign country or in public use or on sale in this country, more than
one year prior to the date of application for patent in the United States.

9. Claims 101, 103-113, 115, 116, 118-121, 140, and 141 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by

Art Unit: 1644

Steinman et al. (1974, IDS) as evidenced by O'Doherty et al. (1994, IDS).

Steinman et al. teaches an *in vitro* composition comprising a mature DC (see particularly Materials and Methods). O'Doherty et al. is merely cited to show that the spleen and lymph node preparations of the reference would have included CD11⁺ mature DCs (see particularly page 492, column 2, last paragraph). As set forth above, the patentability of a product does not depend on its method of production.

Page 4

The reference clearly anticipates the claimed invention.

- 10. No claim is allowed.
- 11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dr. Gerald Ewoldt whose telephone number is (571) 272-0843. The examiner can normally be reached Monday through Thursday from 7:30 am to 5:30 pm. A message may be left on the examiner's voice mail service. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eileen O'Hara, Ph.D. can be reached on (571) 272-0878.
- 12. Please Note: Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197.

G.R. Ewoldt, Ph.D. Primary Examiner

Technology Center 1600